

16. (Amended) Device according to claim 14,
characterized in that
the adaptive loading calculation unit (8) bundles respectively a plurality of subcarriers into
groups and applies the same modulation scheme on all subcarriers belonging to the same group.

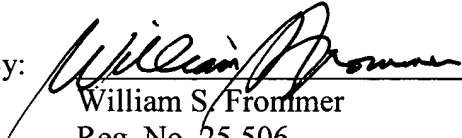
REMARKS

Claims 1-17 remain in the application. Claims 3-5, 7, 9, 11 and 16 have been amended to
eliminate multiple dependencies. Attached hereto is a marked up version of the changes made to
claims 3-5, 7, 9, 11 and 16 by the current amendment. The attached page is captioned **"Version
with markings to show changes made."** The filing fee has been calculated based upon these
amendments to the claims.

Respectfully submitted,

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VERSION WITH MARKINGS TO SHOW CHANGES MADE**In the claims:**

3. (Amended) Method according to claim 1 ~~or 2~~,

characterized in that

the modulation scheme of subcarriers having a high power level is increased, whereas the modulation scheme of subcarriers having a poor power level is decreased departing from a default modulation scheme.

4. (Amended) Method according to claim 1 ~~anyone of the preceding claims~~,

characterized in that

the modulation schemes of the subcarriers are adapted such that the total number of coded bits per symbol is constant.

5. (Amended) Method according to claim 1 ~~anyone of the preceding claims~~,

characterized in that

along with the adaptation of the modulation schemes the transmission power of the subcarriers are adapted such that the total transmission power of all subcarriers remains unchanged.

7. (Amended) Method according to claim 1 ~~anyone of the preceding claims~~,

characterized in that

an adaptive loading information reflecting the adaptation of the modulation scheme of the subcarriers is exchanged between a transmitter (11) and a receiver (10).

9. (Amended) Method according to claim 1 ~~anyone of the preceding claims~~,

characterized in that

a plurality of subcarriers is bundled into groups and the same modulation scheme is applied for all subcarriers belonging to the same group.

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11. (Amended) Computer software program product,

characterized in that

it implements a method according to claim 1 ~~anyone of the preceding claims~~ when run on a computing device of a wireless transmitting device.

16. (Amended) Device according to claim 14 ~~or 15~~,

characterized in that

the adaptive loading calculation unit (8) bundles respectively a plurality of subcarriers into groups and applies the same modulation scheme on all subcarriers belonging to the same group.

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